# SECURITY STANDARDS

# A Guide to Security Readiness



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### INTRODUCTION

The Maryland Health Care Commission developed, "A Guide to Security Readiness" with the assistance of the EDI/HIPAA Workgroup. The purpose of this document is to promote adoption of the HIPAA security standards among health care providers in Maryland. Users of the guide are encouraged to implement the security standards in a manner that is reasonable and consistent with their organizational structure. The contents of this guide represent leading best practices relating to implementation. Users of the guide are encouraged to review the regulations at <a href="http://www.cms.hhs.gov/hipaa/hipaa2/regulations/security/03-3877.pdf">http://www.cms.hhs.gov/hipaa/hipaa2/regulations/security/03-3877.pdf</a> for more specific information on the regulations.

#### **Background**

The Health Insurance Portability and Accountability Act of 1996 (HIPAA) requires payers, providers, and claims clearinghouses (covered entities) to adopt the security standards in order to ensure the confidentiality, integrity, and availability of all EPHI (electronic protected health information) that they create, receive, maintain, or transmit.

The security standards are designed to protect the integrity of EPHI from any reasonably anticipated threats or hazards. Covered entities must implement the regulations by April 21, 2005.

The security standards are organized into three sections referred to as safeguards: administrative, physical, and technical. Each safeguard is further defined by standards. Administrative safeguard's contain nine standards, physical safeguards contain four standards, and technical safeguards contain five standards. Most of the standards are further defined by implementation specifications.

The Office of Civil Rights (OCR) within the Department of Health and Human Services (DHHS) is responsible for enforcing the security standards. Enforcement is expected to be complaint-driven.

### A New Concept - Required & Addressable

The implementation specifications are separated into required or addressable categories. A required implementation specification must be implemented. An addressable implementation specification allows covered entities to select from those that seem reasonable to the organization or to implement an appropriate alternative protection. If an organization determines that an addressable implementation specification is not "reasonable and appropriate," the organization must document the reason the

implementation specification is not reasonable and appropriate. Organizations must implement an equivalent alternative measure if doing so is determined to be reasonable and appropriate.

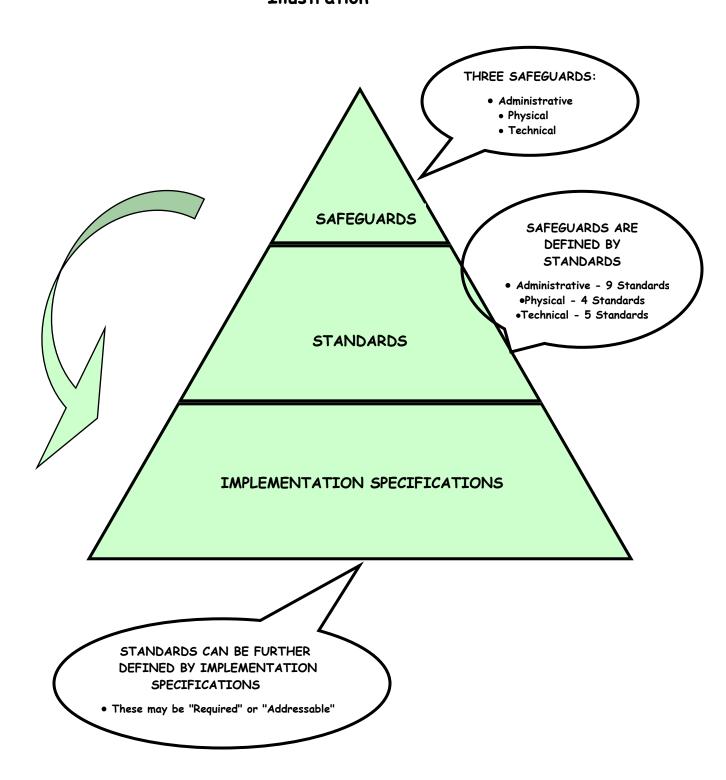
Organizations must take into account size, complexity, technical infrastructure, hardware, software, and the costs of adopting the security measures. The level of adoption is largely driven by potential risks to EPHI.

### **Documentation Requirements**

Providers are required to maintain written policies and procedures of any action, activity, or assessment required by the standard. Documentation must be retained for 6 years from the date that it was created or was last in effect, whichever is later.

Providers must make this documentation available to its workforce. Policies and procedures should be reviewed and updated periodically or as needed in response to environmental or operational changes that may affect the security of EPHI.

# THE HIPAA SECURITY REGULATION Illustration



### Specification & Content Table

### **Specification table includes:**

#### **Safeguards & Standards Chart**

	Safeguards							
Administrative	Physical	Technical						
Standards								
1. Security Management Process	1. Facility Access Controls	1. Access Control						
2. Assigned Security Responsibility	2. Workstation Use	2. Audit Controls						
3. Workforce Security	3. Workstation Security	3. Integrity						
4. Information Access Management	4. Device & Media Controls	4. Person or Entity Authentication						
5. Security Awareness & Training		5. Transmission Security						
6. Security Incident Procedures								
7. Contingency Plan								
8. Evaluation								
9. Business Associate Contracts & Other Arrangement								



#### **SUMMARY TABLE**

Security categories & components

#### **Content table includes:**

- Safeguard that the standard defines
- Regulation citation number
- An  $\mathbb{R}$  or an  $\mathbb{A}$  next to each implementation specification indicating Required or Addressable
- Action items and assessment questions
- Interactive questions



# Example Physical Safeguards §164.310 (d) (1) DEVICE AND MEDIA CONTROLS

Implement policies and procedures that govern the receipt and removal of hardware and electronic media that contain EPHI into and out of a facility, and the movement of these items within the facility.



#### STANDARD INFORMATION

- Safeguard category
- HIPAA regulation reference number
- Explanation of Standard

Action Items & Assessment Questions	SECURITY READINESS Y = Yes N= No SW = Somewhat			
<ul> <li>NAME A SECURITY OFFICIAL §164.308 (a) (2)</li> <li>Identify a security official within your organization who is responsible for implementation and developing policies and procedures         <ul> <li>Have you identified a security official ?</li> </ul> </li> <li>DOCUMENT SECURITY OFFICIAL RESPONSIBILITIES §164.308 (a) (2)</li> <li>Update their job description to include policies and procedures development and security implementation</li> <li>Identify duties of the security official</li> <li>Communicate security official responsibilities to workforce</li> </ul>	□ Yes	□ No	□ sw	IMPLEMENTATION SPECIFICATIONS & QUESTIO  introduces Action Items & Assessment Questions Compliance category stated in a laymen terms Suggested activities and general
<ul> <li>Po you have a job description that outlines specific security duties ?</li> </ul>	□ Yes	□ No	□ sw	



# **Key Security Terms**

Term	Description
Access	The ability to read, write, modify, or communicate using electronic protected healthcare information.
Addressable	An element of the security standard that may be implemented if deemed reasonable and appropriate.
Implementation Specification	Specifications not considered reasonable and appropriate requires supporting documentation and the implemen alternative measure if reasonable and appropriate.
Administrative	Administrative actions including policies and procedures used to manage the selection, development,
Safeguards	implementation, and maintenance of security measure to protect EPHI.
Authentication	A process used to validate an entity as originator or receiver of information.
Availability	Information accessible and useable upon demand by authorized personnel.
Biometrics	Identification system that measures human physical features of an individual that includes hand geometry,
	retinal scan, iris scan, fingerprint patterns, facial characteristics, DNA sequence characteristics, voiceprints, and handwritten signature.
Confidentiality	Protections used to maintain information so that it is not made available or disclosed to unauthorized persons
	or processes.
Contingency Plan	A response strategy to an information technology system disruption or facility disaster or emergency situation.
Data Backup	A retrievable exact copy of electronic information.
Disclosure	Releasing, transferring, providing or giving access to protected health information, including electronic protected health information (EPHI).
Electronic Media	Includes electronic storage media and transmission media.
Electronic Protected Health Information (EPHI)	Protected Health Information (PHI) that is transmitted by electronic media or maintained in electronic media.
Electronic Storage Media	A form of electronic media that includes computer hard drives, magnetic tapes or disks, optical disks, floppy disks, or memory cards.
Encryption	Transforming confidential plain text into cipher text making it unintelligible for storage and or transmission
	over unsecured lines.
Facility	Refers to the physical premises where EPHI is located, and includes the interior and exterior of a building.
Information System	An interconnected set of information technology resources under that shares a common functionality.
Integrity	A process that ensures electronic information has not been accidentally or deliberately altered in an
	unauthorized manner.
Malicious Software	Software used to damage or disrupt a information technology system(s).
Password	Confidential authentication information composed of a string of characters.
Physical Access Controls	Formal policies and procedures used to limit physical access while ensuring that properly authorized access is allowed.

Term	Description
Physical Safeguards	Formal policies, and procedures to protect electronic information systems, related buildings and equipment from unauthorized intrusion, natural and environmental hazards.
PIN (Personal Identification Number)	A number or code assigned to an individual used to provide user identify verification.
Required Implementation Specification	An implementation specification that must be implemented in order to be compliant with the security standards.
Role-Based Access Control	Access to a computer system or application assigned based on job function.
Security or Security Measures	Administrative, physical, and technical safeguards in an information technology system.
Security Incident	The attempted or successful unauthorized access, use, disclosure, modification or destruction of information or interference with system operations in an information technology system. This can include violations by an employee or other individual, intrusion by virus or outside entity into your computer system, or a security breach of EPHI that is being transmitted to an outside entity
Technical Safeguards	Formal policy and procedures used to protect information technology and limit access.
Transmission Media	The process that is used to exchange electronic information including the internet, an extranet, leased lines, dial-up lines (via modem), private networks, or moving removable/transportable electronic storage media.
User	A person or entity authorized to access an information technology system or application.
User-Based Access	Access to information technology system(s) or application(s) assigned on a user basis, by specifically detailing w information and what activities a user is permitted to access.
Workstation	An electronic computing device such as a laptop or desktop computer used to access and or exchange electronic information.



§164.308(a) (1) (i) SECURITY MANAGEMENT PROCESS – Standard 1

Providers are required to implement policies and procedures to prevent, detect, contain, and correct security violations.

	Action Items & Assessment Questions	SECURITY READINESS Y = Yes N= No SW = Somewha		
R	CONDUCT A RISK ANALYSIS §164.308 (a) (1) (ii) (A)			
•	Inventory all hardware and software systems that are used to collect, store, process or transmit EPHI			
•	<b>Identify</b> potential threats and weaknesses that includes natural (fire), human (accidental or intentional corruption or loss of EPHI) and environmental threats (loss of electric power)			
•	<b>Determine</b> whether controls (safeguards and countermeasures) are already in place to protect information technology systems for each identified threat or weakness			
	? Have you completed your risk analysis ?	Yes	□ No	sw
R	<b>MANAGE YOUR RISK</b> §164.308 (a) (1) (ii) (B)			
•	Use results from your risk analysis to determine controls required to protect your EPHI			
•	Implement measures to protect EPHI where vulnerabilities exist			
	? Have you implemented measures to limit your risks to EPHI ?	☐ Yes	No	SW
R	SANCTION WORKFORCE VIOLATIONS §164.308 (a) (1) (ii) (C)			
•	<b>Develop</b> sanctions for workforce members who violate security measures			
•	Conduct security training sessions with workforce members			
	? Do you sanction workforce member for security violations ?	Yes	No	sw
R	REVIEW SECURITY RELEVANT SYSTEM ACTIVITY §164.308 (a) (1) (ii) (D)			
•	<b>Identify</b> the types of user activity which may be inappropriate or malicious			
•	<b>Review</b> records of information system activity such as audit logs, access logs, and security incident tracking reports			
•	<b>Document</b> system reviews and security relevant events			
	? Do you review system activity records ?	☐ Yes	No	sw



§164.308(a) (2) ASSIGNED SECURITY RESPONSIBILITY – Standard 2

Identify the security official who is responsible for the development and implementation of security policies and procedures

Action Items & Assessment Questions		RE/	CURIT ADINE ' = Yes N= No Some	SS
R	NAME A SECURITY OFFICIAL §164.308 (a) (2)			
	<b>Identify</b> a security official within your organization who is responsible for implementation and developing policies and procedures			
•	<b>Update</b> their job description to include policies and procedures development and security implementation			
•	Communicate security official responsibilities to workforce			
	? Have you identified a security official ?	Yes	No	No
R	DOCUMENT EPHI ACCESS PROCEDURES §164.308 (a) (2)			
	<b>Update</b> policies and procedures on the steps required to gain access to EPHI			
•	<b>Train</b> staff on access requirements			
•	<b>Review</b> policies and procedures periodically for completeness as changes in staffing occur	l —	l —	l
	? Do you have a job description that outlines specific security duties ?	Yes	No	SW



§164.308(a) (3) (i) WORKFORCE SECURITY – Standard 3

Implement policies and procedures to ensure that all members of the workforce have appropriate access to EPHI and to prevent those workforce members who do not have access from obtaining access to EPHI.

	Action Items & Assessment Questions	REA Y	CURITADINE ' = Yes N= No Some	SS
A	IMPLEMENT PROCEDURES TO AUTHORIZE/SUPERVISE EMPLOYEE ACCESS TO EPHI §164.308(a) (3) (ii) (A)			
	Determine workforce required to access EPHI based upon job responsibilities			
•	Periodically review workforce EPHI access and location requirements			
	? Do you periodically review workforce EPHI access requirements ?	☐ Yes	□ No	sw
A	DEVELOP A FORMAL PROCESS TO DETERMINE HOW EMPLOYEES ACCESS EPHI §164.308(a) (3) (ii) (B)			
	Determine EPHI access requirement needs of your workforce			
•	Establish document, review, and modify a user's right of access to workstation, transactions, and programs			
A	? Does a formal process exist that identifies users requiring access to EPHI ?  **IMPLEMENT PROCEDURES TO PREVENT ACCESS TO EPHI BY TERMINATED EMPLOYEES §164.308(a) (3) (ii) (C)	Yes	No	sw
•	Implement steps to collect physical access keys and block information technology access of terminated workforce			
	? Do you have documented procedures for preventing terminated workforce access to computer system(s)?	Yes	No	sw



§164.308(a) (4) (i) INFORMATION ACCESS MANAGEMENT – Standard 4

Implement policies and procedures for authorizing access to EPHI.

	Action Items & Assessment Questions			SECURITY READINESS Y = Yes N= No SW = Somewhat		
A	AC	CCESS AUTHORIZATION §164.308 (a) (4) (ii) (B)				
	Ide	entify a method for workforce access to EPHI that is appropriate for your organization				
	0	Role-based access - Access by job requirements or description				
	0	User-based access - Access determined by specific user				
	0	Location-based access - Access defined by job location				
	De	etermine individuals who can add, update, or delete EPHI from your information technology system(s)				
? Do you grant workforce access to EPHI using a consistent method ?		Yes	□ No	Sw		
A	AC	CCESS ESTABLISHMENT AND MODIFICATION §164.308 (a) (4) (ii) (B)	163	110		
	De	etermine the appropriate workforce qualifications for accessing and making changes to EPHI				
	Im	plement EPHI access procedure to include:				
	0	Access management procedures which can be enforced within existing office systems and networks				
	0	Training program for employees				
	0	Ongoing review				
		? Does someone in your organization oversee EPHI access guidelines ?	Yes	No	sw	



§164.308(a) (5) (i) SECURITY AWARENESS AND TRAINING – Standard 5

Implement a security awareness and training program for all members of your workforce, including management.

Action Items & Assessment Questions		REA Y	CURIT ADINES ' = Yes N= No Somev	SS
A PROVIDE WORKFORCE SECURITY TRAINING WITH PERIODIC SECURITY REMINDER §164.308 (a) (5) (ii) (A)	<b>RS</b>			
<ul> <li>Implement security awareness training for all new and existing workforce that includes periodic refresher training</li> <li>Distribute information aimed at reducing the risk of improper access, uses, and disclosures of EPHI to your workforce</li> </ul>	;			
? Do you provide your workforce with initial and refresher training on protecting you computer system(s) ?		Yes	No	sw
A PROTECT YOUR COMPUTER SYSTEMS FROM VIRUSES OR OTHER MALICIOUS SOFTWARE §164.308 (a) (5) (ii) (B)				
Define appropriate workforce procedures relating to Internet use				
Check all software for potential viruses before installing on workstations				
Install virus protection software and review to make certain that your using the latest version				
? Do you run virus protection software on your computer system(s) ?	[	Yes	No	SW
A DEVELOP A PROCEDURE TO MONITOR & REPORT UNSUCCESSFUL LOG-IN ATTEMPTS §164.308 (a) (5) (ii) (C)	S			
Determine if your computer system(s) blocks repeated failed user login attempts				
Review your information technology system(s) for available reporting features on unsuccessful user logins				
? Can you track failed user login attempts ?	ļ	Yes	No	sw
A IMPLEMENT PASSWORD MANAGEMENT PROCEDURES §164.308 (a) (5) (ii) (D)				
Establish procedures for creating, changing, and safeguarding passwords				
? Do you instruct your workforce to use a combination of alpha numeric and special characters when selecting a password ?		Yes	No	sw



§164.308(a) (6) (i) SECURITY INCIDENT PROCEDURES – Standard 6

Implement policies and procedures to address security incidents.

	Action Items & Assessment Questions			Y SS what
R	RESPONSE AND REPORTING §164.308(a) (6) (ii)			
•	<b>Develop</b> measures to address unauthorized computer system(s) access, use, disclosure, modification, or destruction of EPHI			
•	<b>Evaluate</b> various response scenarios to lessen or remove the potential for future security breaches			
•	Track responses to security breaches			
•	Identify who should be informed when an actual or potential security breach occurs			
	? Are you able to identify and appropriately respond to computer security breaches ?	Yes	No	sw



§164.308(a) (7) (i) CONTINGENCY PLAN – Standard 7

Establish (and implement as needed) policies and procedures for responding to an emergency or other occurrence (for example, fire, vandalism, system failure, and natural disaster) that damages systems that contain EPHI.

	Action Items & Assessment Questions	REA Y	CURIT ADINE = Yes N= No Some	SS
R	ESTABLISH AND IMPLEMENT A DATA BACKUP PROCEDURE §164.308(a) (7) (ii) (A)			
•	Identify computer system(s), programs and/or data containing EPHI Implement daily, weekly, or monthly backups as deemed appropriate by your organization Assign backup duties to a designated workforce member and identify at least one alternate			
	? Have you established & implemented data backup procedures ?			
R	DOCUMENT STEPS TO RECOVER LOST DATA (A DISASTER RECOVERY PLAN) 164.308(a) (7) (ii) (B)	Yes	No	SW
•	<b>Develop</b> step-by-step procedures to restore your computer system(s) in the event of lost data			
	? Do you have a documented disaster recovery plan ?	Yes	No	SW
R	DEVELOP & IMPLEMENT PROCEDURES TO CONTINUE OPERATIONS IN EMERGENCY MODE §164.308(a) (7) (ii) (C)	res	NO	SW
•	<b>Identify</b> critical business operations such as patient scheduling, billing, etc. that would need to continue in the event of a disaster			
•	<b>Identify</b> an alternate computer system(s) and location that can be used in the event of physical or system related disaster			
	? Do you have documented procedures for operating in an emergency ?	Yes	□ No	SW
A	IMPLEMENT INITIAL AND PERIODIC TESTING & REVISION OF YOUR CONTINGENCY PLAN §164.308(a) (7) (ii) (D)			
•	Test on a routine basis your data backup, data recovery, and emergency mode operation procedures			
•	Identify and resolve any problems that occur during the testing phase			
•	<b>Revise</b> your data backup, data recovery, and emergency mode operation plan as changes occur in your physical resources and computer system(s)			
	? Do you know what to do in the event of a computer system failure ?	☐ Yes	No	sw
A	ASSESS ALL CRITICAL DATA SYSTEMS OR OFFICE PROCEDURES §164.308(a) (7) (ii) (E)			
•	<b>Determine</b> the overall importance of specific applications that support your contingency plan			
	? Are you aware of critical applications essential to your contingency plan ?	Yes	□ º	SW



§164.308(a) (8) EVALUATION – Standard 8

Perform a periodic technical and non-technical evaluation, based initially on the security standards you have developed, and subsequently in response to environmental or operational changers affecting the security of EPHI.

	Action Items & Assessment Questions			SS what
R	DETERMINE WHO WILL CONDUCT YOUR SECURITY EVALUATION §164.308 (a) (8)			
-	<b>Select</b> an evaluation tool that will assist in completing a security evaluation of your information technology system(s) and physical resources			
•	<b>Complete</b> a security review of your information technology system and physical resources prior to April 21, 2005 and thereafter when changes			
•	<b>Periodically</b> assess your security adequacy as changes to your physical resources and information technology system(s) occur			
?	Have you completed a security evaluation to assess environmental and operational conditions that affect EPHI ?	Yes	No	sw



308 (8) (b) (1) Business Associate Contracts and Other Arrangement – Standard 9

A covered entity may permit a business associate to create, receive, maintain, or transmit EPHI on the covered entity's behalf only if the covered entity obtains satisfactory assurances that the business associate will appropriately safeguard the information.

	Action Items & Assessment Questions	REA Y	CURIT ADINE = Yes N= No Some	SS
R	DETERMINE WHICH VENDORS REQUIRE A BUSINESS ASSOCIATE CONTRACT			
	§164.308 (b) (1)			
•	Identify trading partners that create, receive, maintain, or transmit EPHI on your behalf			
•	<b>Require</b> business associates to protect EPHI by implementing safeguards that maintain the confidentiality, integrity, and availability of EPHI			
	? Can you identify business associates of your organization ?	Yes	□ No	SW
R	THE BUSINESS ASSOCIATE CONTRACT §164.308 (b) (1)			
•	<b>Require</b> organizations and their subcontractors that create, receive, maintain, or transmit EPHI on your behalf to sign a Business Associate Contract			
	<ul> <li>The Business Associate Contract may already exist for your organization as part of compliance with the privacy standards</li> </ul>			
	? Do you require business associates to sign a Business Associate Contract ?	☐ Yes	□ No	sw



§164.310 (a) (1) FACILITY ACCESS CONTROLS – Standard 1

Implement policies and procedures to limit physical access to your electronic information systems and the facility or facilities in which they are housed, while ensuring that properly authorized access is allowed.

	Action Items & Assessment Questions	REA Y	CURITADINE  Y = Yes  N = No  Some	SS
A	CONTINGENCY OPERATIONS §164.310 (a) (2) (i)			
•	<b>Establish</b> procedures that allows select workforce members access to the facility in support of restoring lost EPHI in the event of an emergency			
	Provide appropriate access training to critical workforce members			
	? Have you identified your critical workforce members in the event of a disaster ?	Yes	No	sw
A	FACILITY SECURITY PLAN §164.310 (a) (2) (ii)			
	<b>Identify</b> all physical locations of EPHI including, offices, computer workstations, etc.			
	Implement measures for securing locations where EPHI is stored or used			
•	Restrict access to information technology system(s) to only select workforce members			
	? Are your computer systems in a secure location within your organization ?	Yes	No	sw
A	ACCESS CONTROL AND VALIDATION PROCEDURES §164.310 (a) (2) (iii)			
	Determine workforce access requirements to facilities, locations, etc. where EPHI is stored and or maintained			
•	<b>Implement</b> appropriate workforce access controls such as key locks, swipe cards, etc. to locations where EPHI is stored and or maintained			
	? Is access to your computer systems hardware limited to select personnel ?	☐ Yes	No	sw
A	MAINTENANCE RECORDS §164.310 (a) (2) (iv)			
•	<b>Implement</b> tracking logs of repairs to your computer system(s) and facility that include a record of when locks are changed, security systems are replaced or modified, or offices renovated			
	? Do you track maintenance activity to your facility and computer system(s) ?	☐ Yes	□ No	sw



§164.310 (b) WORKSTATION USE – Standard 2

Implement policies and procedures that specify the proper functions to be performed, the manner in which those functions are to be performed, and the physical attributes of the surroundings of a specific workstation or class of workstation that can access EPHI.

	Action Items & Assessment Questions	REA Y	CURIT ADINE = Yes N= No Some	SS
R	WORKSTATION USE §164.310 (b)			
-	<b>Identify</b> EPHI available at each workstation, workforce access to each workstation, and whether each workstations interfaces with the Internet, a modem, or is a direct connect to payers			
.	Determine potential security vulnerabilities at each workstation based upon EPHI it can access			
•	<b>Implement</b> appropriate measures to protect the security of each workstation(s) that include logging off when the workstation is unattended and at the end of the work day			
	? Are you aware of software applications that exist on each of your workstations ?	Yes	No	sw



§164.310 (c) WORKSTATION SECURITY – Standard 3

Implement physical safeguards for all workstations that access EPHI, to restrict access to authorized users.

Action Items & Assessment Questions	REA Y	CURIT ADINE = Yes N= No Some	SS
R WORKSTATION SECURITY §164.310 (c)			
Safeguard workstations that allow access to EPHI, such as locating workstations in a locked room, positioning workstation(s) so that it cannot be accessed or viewed by unauthorized personnel			
? Are your workstations set up to require user access using a logon ID and password?	Yes	No	sw



§164.310 (d) (1) DEVICE AND MEDIA CONTROLS – Standard 4

Implement policies and procedures that govern the receipt and removal of hardware and electronic media that contain EPHI into and out of a facility, and the movement of these items within the facility.

	Action Items & Assessment Questions	REA Y	CURIT ADINE = Yes N= No Some	SS
R	MEDIA CONTROLS & DISPOSAL §164.310 (d) (2) (i)			
	Implement measures to govern the receipt and removal of hardware and software			
•	<b>Establish</b> criteria to destroy EPHI stored and maintained on computer system(s) hard drives, floppy discs, CDs, and other electronic media such as the use of scrubbing software or physical destruction			
	? Does your organization physically destroy electronic media before disgarding ?	Yes	□ No	SW
R	MEDIA RE-USE §164.310 (d) (2) (ii)			
•	Eliminate EPHI from media using scrubbing software before its reused, reformatting is not sufficient to destroy EPHI			
	? Do you use some sort of scrubbing software on electronic media before reusing ?	Yes	No	SW
A	ACCOUNTABILITY §164.310 (d) (2) (iii)			
•	<b>Identify</b> a member of your workforce responsible for overseeing the receipt and removal of hardware and EPHI			
	? Does a member of your workforce oversee the removal of EPHI ?	Yes	□ No	Sw
A	DATA BACKUP AND STORAGE §164.310 (d) (2) (iv)			
•	Routinely backup information technology system(s) containing EPHI before making changes to your system(s)			
•	<b>Periodically</b> attempt to restore backups containing EPHI in a test environment to identify potential restoration problems in electronic media or hardware			
•	Maintain an onsite backup file(s) for daily/weekly time periods and store monthly backups off site			
	? Do you complete a system backup prior to making hardware changes ?	Yes	No	sw



§164.312 (a) (1) ACCESS CONTROL – Standard 1

Implement technical policies and procedures for electronic information systems that maintain EPHI to allow access only to those persons or software programs that have been granted access rights (as specified under Administrative Safeguards, Information Access Management.

	Action Items & Assessment Questions	REA Y	CURIT ADINE = Yes N= No Some	SS
R	UNIQUE USER IDENTIFICATION §164.312 (a) (2) (i)			
	Limit access to EPHI to workforce members that have been granted access rights  Determine individuals or positions that require access to information technology system(s) where EPHI is maintained  Implement procedures for identifying and tracking user identity  ? Does a procedure exist for tracking the identity of system users?  EMERGENCY ACCESS PROCEDURE §164.312 (a) (2) (ii)	Yes	No	sw
	Establish a process for obtaining EPHI during an emergency  Identify workforce member(s) responsible that have access to EPHI in an emergency  ? Does your workforce know how to obtain EPHI in an emergency ?  AUTOMATIC LOGOFF §164.312 (a) (2) (iii)	 Yes	No	sw
	Determine whether your information technology system(s) have an automatic logoff feature  Establish automatic logoff procedures best suited for your workforce  Use screen saver options when automatic logoff feature is not available  ? Does your computer automatically logoff users after a period of inactivity ?  ENCRYPTION AND DECRYPTION §164.312 (a) (2) (iv)	Yes	□ No	sw
•	Determine the risk of EPHI stored or maintained that is vulnerable to access from unauthorized users  Implement encryption software of stored EPHI if the risk of access is unacceptable to your organization  ? Have you considered your risk and the need for encrypting stored EPHI ?	Yes	No	Sw



§164.312 (b) AUDIT CONTROLS – Standard 2

Implement hardware, software, and/or procedural mechanisms that record and examine activity in information systems that contain or use EPHI.

	Action Items & Assessment Questions	REA Y	CURIT ADINE = Yes N= No Some	SS
R	SECURITY ASSESSMENT REVIEW §164.312 (b)			
•	Determine activity tracking capabilities of your information technology system(s) that contain EPHI			
•	Implement information technology system(s) activity reports where EPHI is stored and or maintained			
•	<b>Evaluate</b> your need to install tracking software in the event your computer system(s) does not have an audit feature			
•	<b>Consider</b> limiting your workforce to only select information contained in EPHI to that which is required to perform specific job duties			
•	<b>Assign</b> responsibility to a member of your workforce for completing security audits on a routine basis using your risk analysis to determine appropriate level of audit controls			
	? Have you implemented audit controls on your computer system(s) ?	Yes	No	sw



§164.312 (c) (1) INTEGRITY – Standard 3

Implement policies and procedures to protect EPHI from improper alteration or destruction.

Action Items & Assessment Questions		SECURITY READINESS Y = Yes N= No SW = Somewhat	
<ul> <li>MECHANISM TO AUTHENTICATE EPHI §164.312 (c) (2)</li> <li>Implement a mechanism to validate that EPHI you transmit or receive has not been altered or destroyed such as:         <ul> <li>Installation of a firewall on your computer(s) or network server(s)</li> <li>Encryption software</li> <li>Host-based intrusion monitoring or detection software</li> </ul> </li> </ul>			
<ul> <li>Virus protection software</li> <li>Poes your organization validate EPHI it receives electronically ?</li> </ul>	Tes	No	sw



§164.312 (d) PERSON OR ENTITY AUTHENTICATION – Standard 4

Implement procedures to verify that a person or entity seeking access to EPHI is the one claimed.

	Action Items & Assessment Questions		REA Y	CURIT ADINE ' = Yes N= No Some	SS
R ·		<b>FRSON OR ENTITY AUTHENTICATION</b> §164.312 (d) <b>plement</b> measures to confirm that individuals granted access to EPHI are appropriately identified such as:			
	0	Require a password or PIN (personal identification number) to access applications or systems containing EPHI  Use physical devices for Internet access such as smart cards, cards with magnetic strips that store information, or one-time passwords, soft tokens, etc.			
?	° Do	Biometric devices, such as fingerprints, retinal scans, voice activation are examples of more technologically advanced authentication systems  Des your organization validate users before granting access to computer system(s)?	Yes	□ No	sw
			ies	No	3₩



§164.312 (e) (1) TRANSMISSION SECURITY – Standard 5

Implement technical security measures to guard against unauthorized access to EPHI transmitted over an electronic communications network.

		Action Items & Assessment Questions	RE#	CURIT ADINE ' = Yes N= No Some	SS
A	PROTE	CCTIONS & INTEGRITY CONTROLS §164.312 (e) (2) (i)			
•	•	<b>ent</b> data tracking logs, data modification reports, or other measures to monitor that electronically transmitted EPHI mproperly modified			
•	<b>Identify</b> network	report tracking activities to guard against improper access to EPHI transmitted over an electronic communications			
		? Does your organization monitor data access logs relating to EPHI ?	Yes	□ No	sw
A	ENCRY	<b>PTION</b> §164.312 (e) (2) (ii)			
	Evaluate	the need based upon actual or perceived risk for encryption technology in your organization			
	0	Exposed electronic transmission does not include "point-to-point" or "dedicated" transmission over dial-up lines or use of a modem			
	0	Transmissions using the Internet, including FTP services and bulletin boards, is susceptible to the threat of interception and risk of disclosure			
		? Has your organization considered its risks to unencrypted EPHI ?	Yes	No	sw



# SECURITY READINESS SELF ASSESSMENT INDICATOR

## Count the number of "Yes" responses & circle on scale below

# Required Implementation Specifications

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Does Not Somewhat Fully Exist In Place Implemented

# Addressable Implementation Specifications

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Does Not Somewhat Fully Exist In Place Implemented

Overall, I would consider my organization to be:
 <b>Mostly compliant</b> with the HIPAA security requirements
 Somewhat compliant with the HIPAA security requirements
 Not at all compliant with the HIPAA security requirements

#### **ACKNOWLEDGEMENTS**

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